

**ABSTRACT OF THE DISCLOSURE**

A catalyst and process for the production of acetic acid by the carbonylation of methanol and/or a reactive derivative thereof. The catalyst system comprises an iridium carbonylation catalyst, methyl iodide co-catalyst, optionally at least one of ruthenium, osmium, rhenium, zinc, gallium, tungsten, cadmium, mercury and indium and at least one non-hydrohalogenoic acid promoter. The non-hydrohalogenoic acid may be an oxoacid, a superacid and/or a heteropolyacid.